



Compounds for HTS
Chemical building blocks
Fragment libraries
Targeted libraries
Drug discovery services

HCN CHANNEL BLOCKER LIBRARY

OTAVA offers Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channel Blocker library. This library provides an excellent basis for antianginal, antiarrhythmic, neuropathic research and drug discovery projects.

The library consists of **636 compounds***.

All compounds are:

- **in stock**; available amounts: 1 – 50 mg
- reactive, pan-assay interference (PAINS), redox-active and aggregator compounds were removed from the library.

QA/QC passed:

- minimal purity of compounds is **90%**;
- by **NMR** and/or **GC/LC/MS**
- **NMR spectra are available** upon request

Friendly packing services:

- **Cherry-picking is available**
- Supplied as dry powder or DMSO solution**
- Packaging in deep-well plates or barcoded vials***
- **Weighing out is free**

*Please note that the library does not contain known inhibitors. The compounds were selected with computational approach and are intended for screening projects

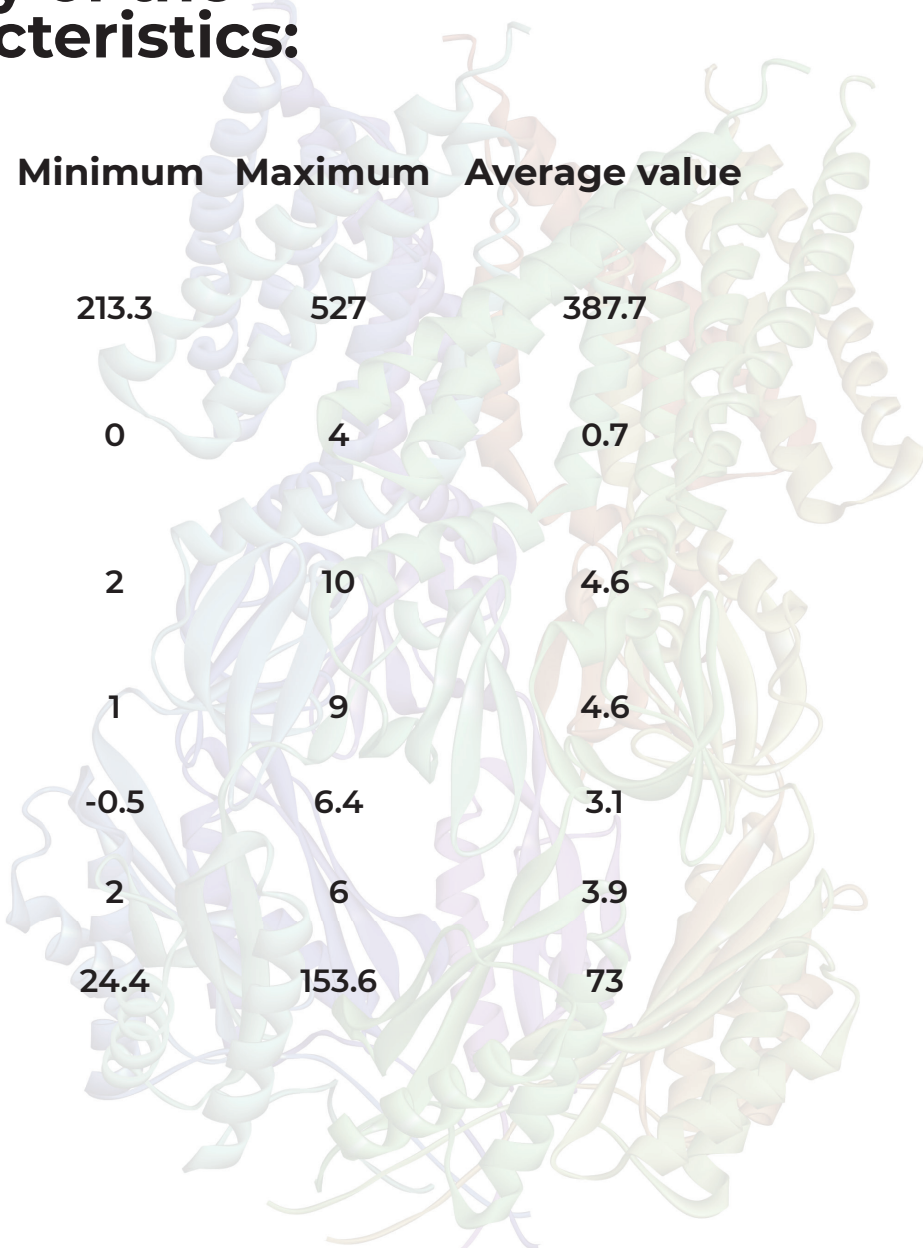
**there is additional fee for preparation of the solution

***4 ml amber glass vials or Deep-well plates: Matrix cat# 4247 (1.4 mL, Blank, Polypropylene, Round Bottom Tubes) w/CapMats. Or plates and vials provided by customer.

Design speciality:

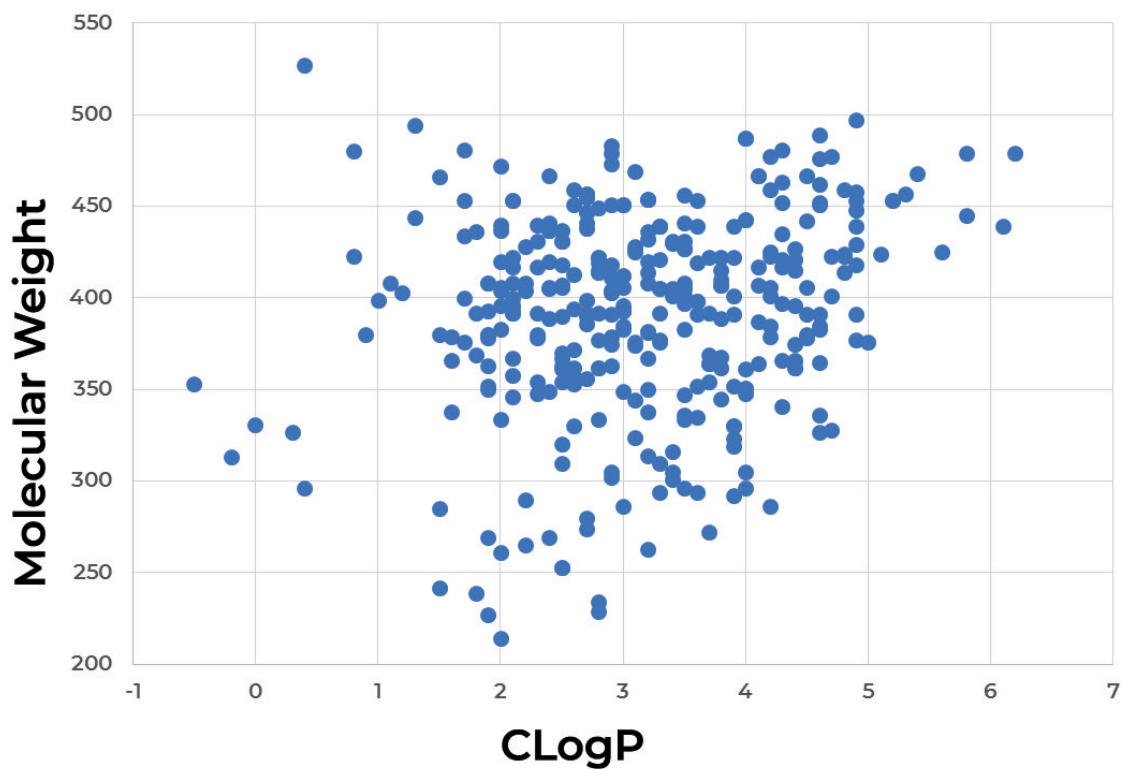
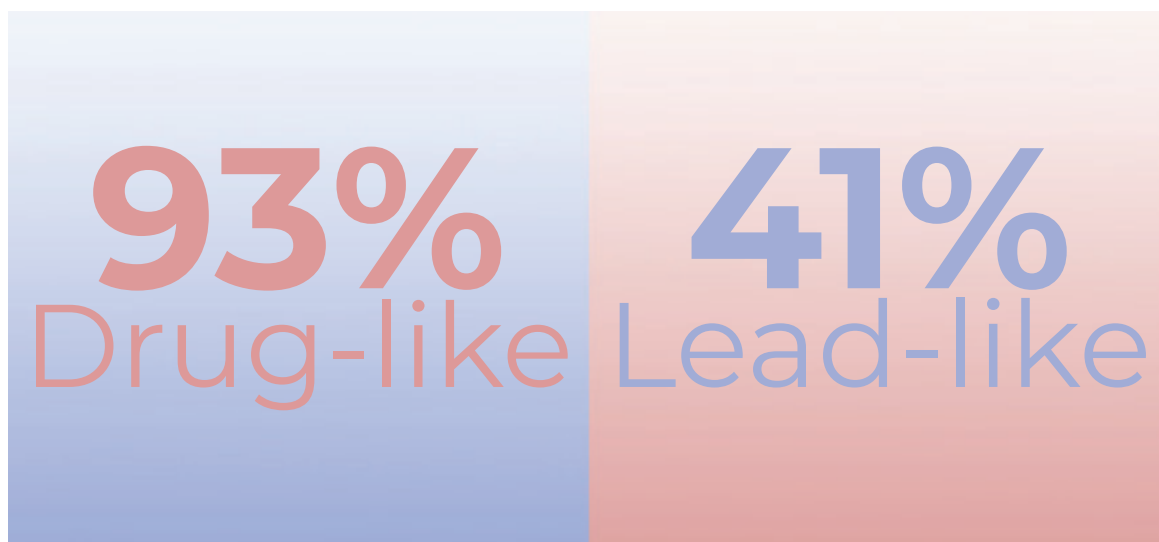
Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channel Blocker library was designed as a special screening library containing compounds with predicted HCN channels blocking activity and selectivity. The compounds have been selected by pharmacophore screening (see Appendix 1) of OTAVACHemicals's Drug-like Green Collection against two ligand-based pharmacophore models. The models were built based on known HCN channel blockers.

The summary of the library characteristics:

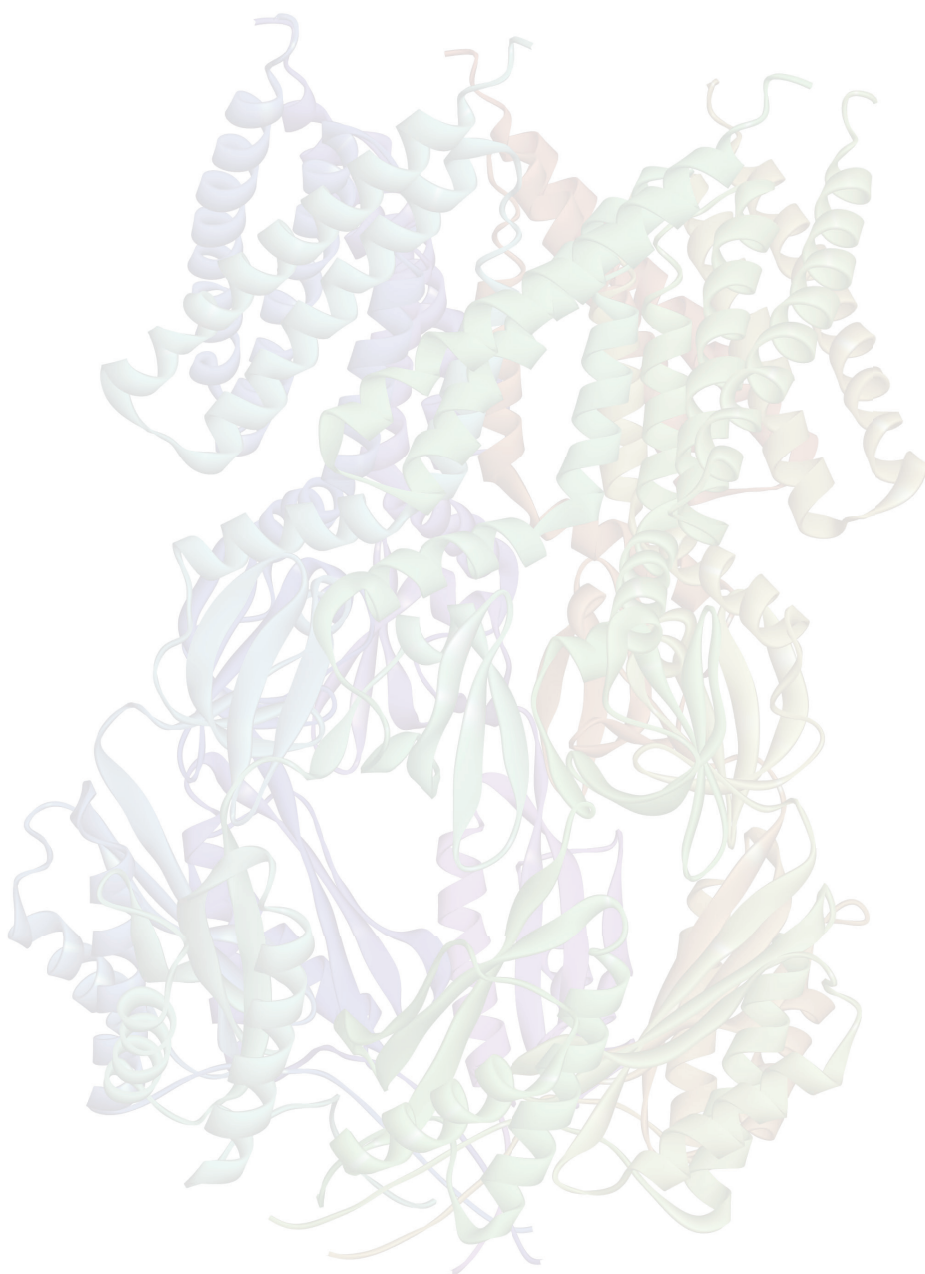


	Minimum	Maximum	Average value
Molecular Weight	213.3	527	387.7
Number of Hydrogen Bond Donors	0	4	0.7
Number of Hydrogen Bond Acceptors	2	10	4.6
Number of Rotatable Bonds	1	9	4.6
CLogP	-0.5	6.4	3.1
Number of Rings	2	6	3.9
Polar Surface Area	24.4	153.6	73

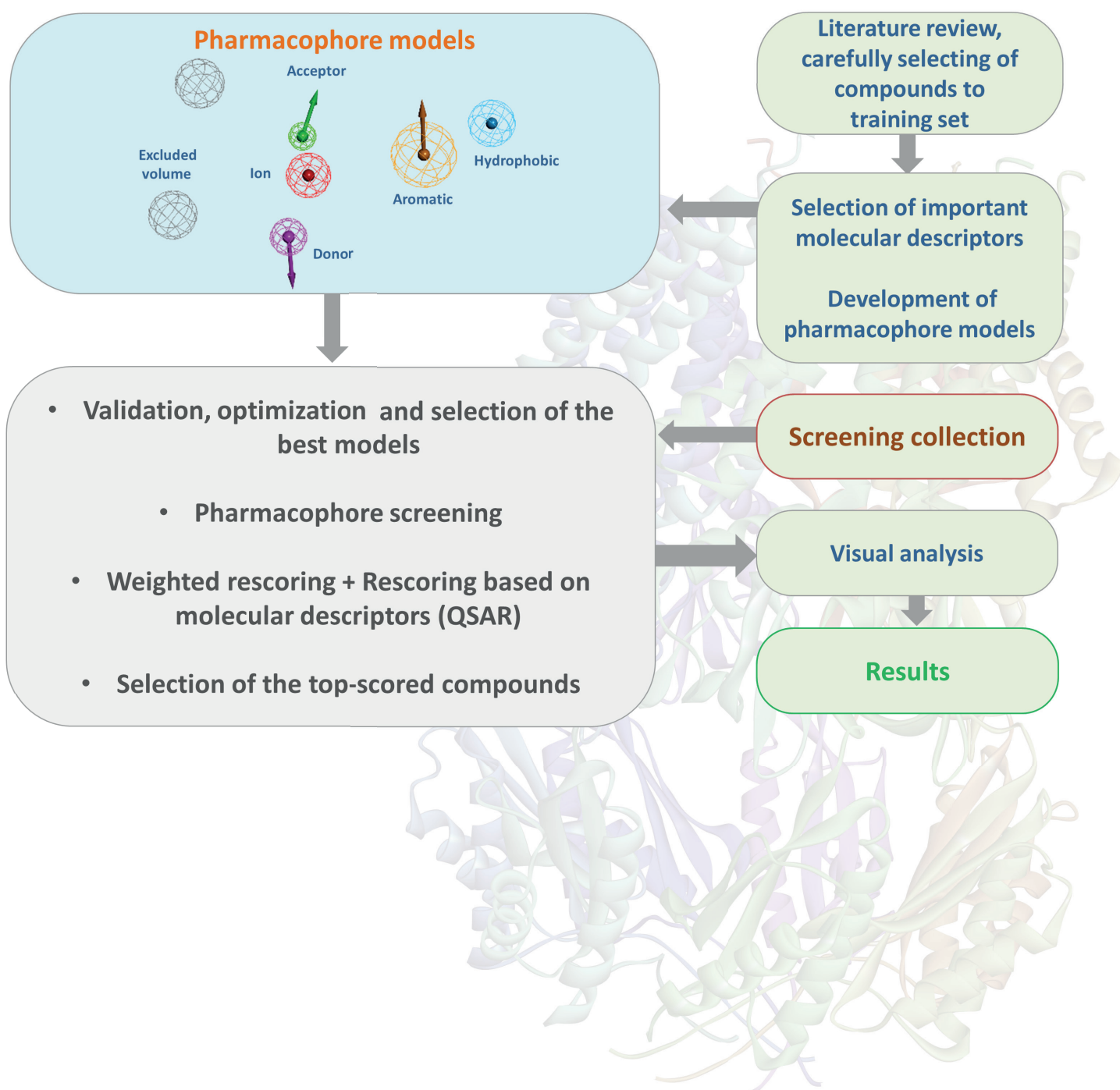
Distribution of physicochemical properties of compounds in the library:



Appendix 1



Scheme 1. Application of ligand-based pharmacophore modeling for targeted library:



Our contacts:

OTAVA LTD.

400 Applewood Crescent, Unit 100
Vaughan, Ontario, L4K 0C3, CANADA

E-mail: north.america@otavachemicals.com

Tel.: +1-416-549-8030

OTAVACHemicals Europe Distributors

Meistrų g. 9

Vilnius, 02189, LITHUANIA

E-mail: eurasia@otavachemicals.com

Tel.: +3-706-738-3544

web: <https://otavachemicals.com/>

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OTAVA Ltd.
65 Ellerslie Ave., Suite 560
Toronto, Ontario, M2N 1Y1
CANADA

OTAVACHEMICALS.COM